			<u>ABBRIVIATIONS</u>						
<u>Abbr</u>	<u>Description</u>	<u>Abbr</u>	<u>Description</u>		<u>Abbr</u>	<u>Description</u>		<u>Abbr</u>	<u>Description</u>
A Abut Abbr Alt & Approx AC AZ	Abutment Abbreviate, Abbreviation Alternate And Approximate Asphalt Concrete Azimuth	F F'c F'ci Ft Fig Fin Gr F	Far Face Specified Strength of Concrete Strength of Concrete at Time of Initial Prestress Feet, Foot Figure Finished Grade Fixed	<u>P</u>	Pav't Perf PL PCC PCF PSF PSI PLF	Pavement Perforated Plate Point of Curvature Pounds Per Cubic Foot Pounds Per Square Foot Pounds Per Square Inch Pounds Per Linear Foot	<u>W</u> <u>Y</u>	WWF WW WP	Welded Wire Fabri Wing Wall Work Point Year
B BK Bal B BM Brg, Brgs BVC Bet BF BW B, Bott Br	Back Balance Baseline Beam Bearing, Bearings Beginning of Vertical Curve Between Both Faces Bothways Bottom Bridge	Ftg FA FF GA Galv Gen Gir H H, Ht H	Footing Force Account Front Face Gauge, Gage Galvanized General Girder Height Hinge		PI PIVC PT PT, PTS PRC PVC Prestr P/S PB	Point of Intersection of Tangents Point of Intersection of Vertical Curve Point of Tangency Point, Points Point of Reverse Curvature Polyvinyl Chloride Prestressed Prestressed Pull Box			
BW Cant CIP CIP CIP CC CC CI, CIr Col	Backwall Contilever Cast in Place Cast Iron Pipe Centerline Center to Center Class, Clearance Column	Horiz IB In ID IF Int Inv	Inbound Inch Inside Diameter Inside Face Interior Invert	<u>R</u>	R RF Ref Reinf Req'd RWLOL	Radius Rear Face Reference Reinforcement Required Retaining Wall Layout Line Section			
CC Conc Conn Const CJ Cont CF	Compound Curve Concrete Connection Construction Construction Joint Continuous Cubic Feet Cubic Yard	J Jt K K KFT KSI L L LB, LBS	Joint Kips Kip Foot Kips Per Square Inch Length Pound, Pounds		Sht Spc, Sp Spec SF SY SS Std	Sheet South Spaces Specification Square Feet Square Yard Stainless Steel Standard			
Det Dia, ø Dim Dist Dwls DI Dwg, Dwgs	Detail Diameter Dimension Distance Dowels Drain Inlet Drawing, Drawings	Ltg Std LF Longit LS <u>M</u> MH Max Mech Min	Lighting Standard Linear Feet Longitudinal Lump Sum Manhole Maximum Mechanical Minimum	T	Sta Stiff Stirr Str Struct SE Symm	Station Stiffener Stirrup Straight Structural Superelevation Symmetrical Structural Tubing			
E Ea EF EFH EFV EW EP E Elec EI, Elev Emb	Each Face Each Face Horizontal Each Face Vertical Each Way Edge of Pavement East Electrical Elevation Embankment	Misc MPH N NF N NIC NTS No, Nos,	Miscellaneous Miles Per Hour Near Face North Not in Contract Not to Scale		Tan Temp Thk T T&B TOD Tot Transv Typ	Tangent Temporary Thick Top Top and Bottom Top of Deck Total Transverse Typical			
EVC Eq Est Exc Excl Exist Exp, E Ext ES	End of Vertical Curve Equal Estimated Excavation Excluding Existing Expansion Exterior Each Side	OC Opn'g OB OD	On Center Opening Outbound Outside Diameter	<u>V</u>	Var Vert VC	Varies Vertical Vertical Curve			

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	BR-019-2(46)	2000	5	26



DATE REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ABBREVIATIONS

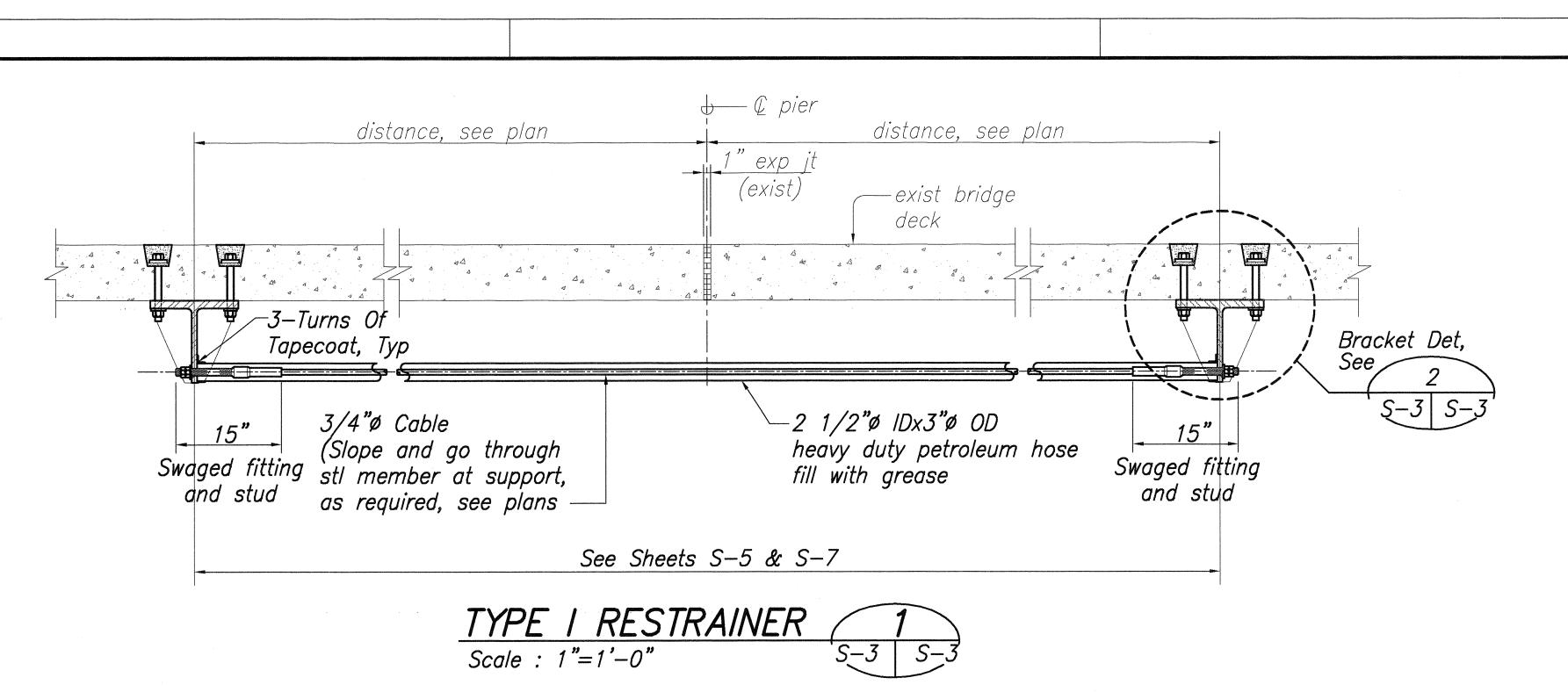
SEISMIC RETROFIT OF VARIOUS BRIDGES

EAST OF NINOLE, HAWAII

F.A. PROJECT NO. BR-019-2(46)

Scale: As Noted Date: AUG. 17, 1999

SHEET No. S-2 OF 23 SHEETS



Detail or section

Sheet No. where

section or detail is

designation

drawn

| 51

· *S1*

Leveling grout —

7/8"ø bolts, set

in drilled holes

exist conc deck

grind contact

3/4"ø Cable

Type 1, See (

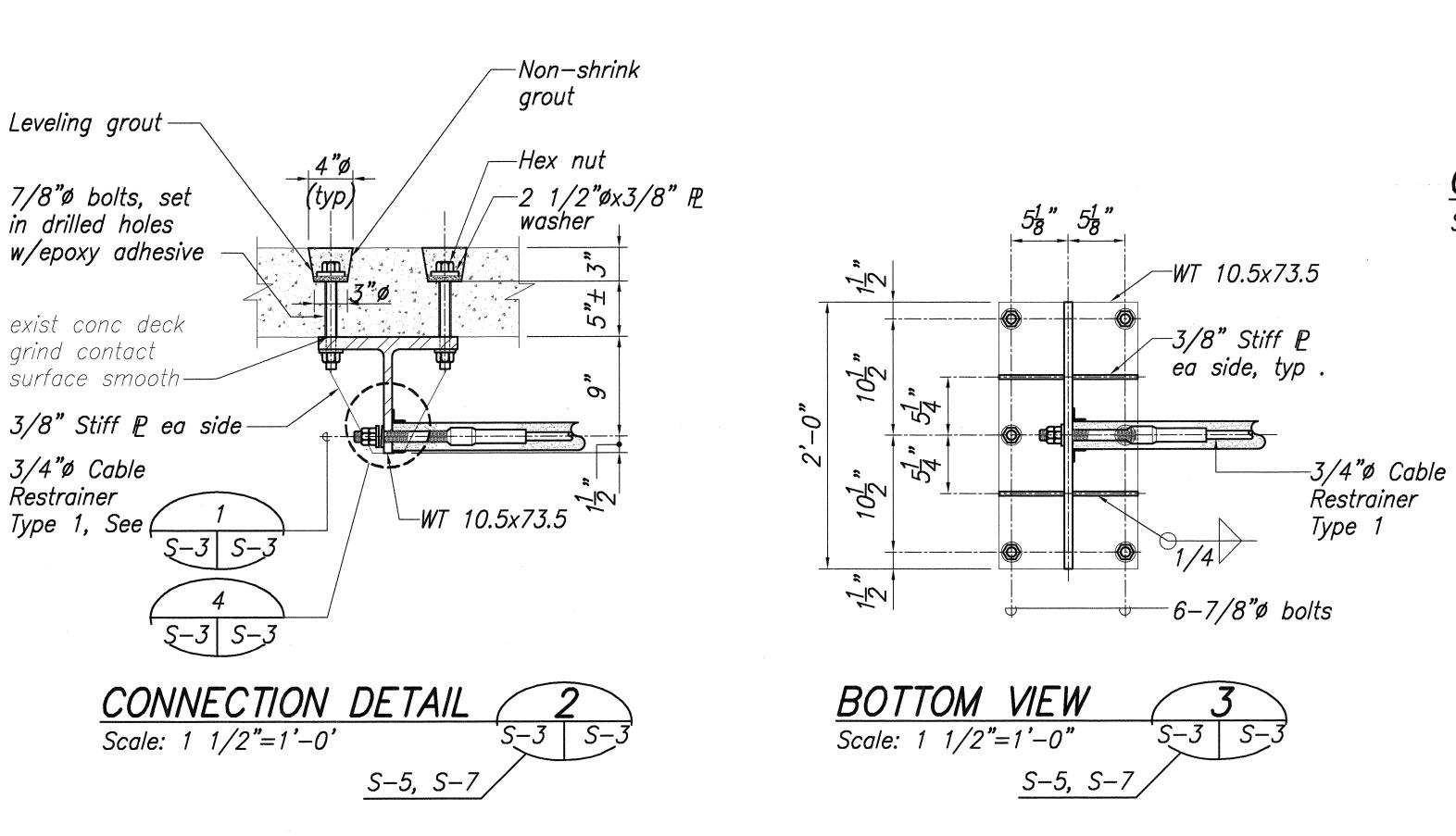
Section (Alpha) "A" "B" Detail (No.) "1", "2" —

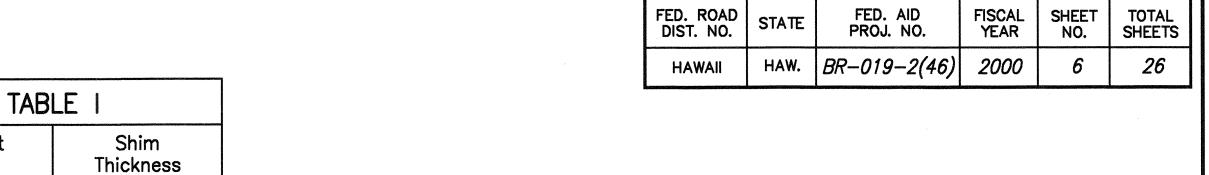
Sheet No. where section

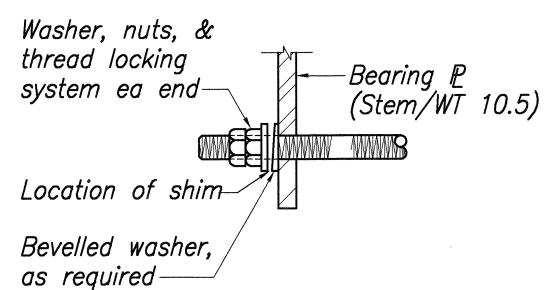
is cut or detail taken

from -

Ŕestrainer







(IN)

1/2

1 1/8

1 3/4

Ambient

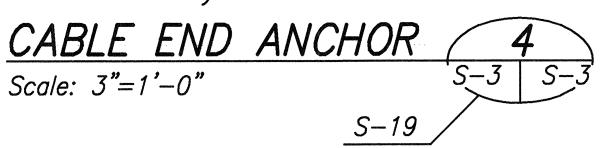
Temp (F°)

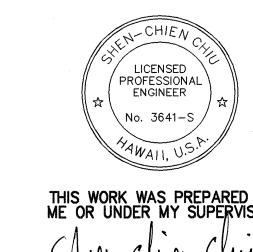
<40

40 TO 80

80>

<u>Notes</u> Place shims between bearing plate and washer. Tighten nuts to remove slack from system. Remove shims. Shim thickness to be in accordance with Table 1". Both anchorage of a unit shall be adjusted simultaneously.





TE REVISION	REVISION				
STATE OF HAWAII DEPARTMENT OF TRANSPORTAT HIGHWAYS DIVISION	ION				
TYPICAL DETAILS					

SEISMIC RETROFIT OF VARIOUS BRIDGES

EAST OF NINOLE, HAWAII

F.A. PROJECT NO. BR-019-2(46)

Scale: As Noted Date: AUG. 17, 1999 SHEET No. S-3 OF 23 SHEETS

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THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION Shew-chen Chur